

**Amendments to the Claims****Claims 1-72 (Canceled)**

**Claim 73 (New):** A method of producing a vaccine, comprising:  
constructing a plasmid vector or DNA fragment by operably linking a DNA sequence  
encoding an immunogenic viral antigen to a plant functional promoter capable of  
directing expression of said viral antigen in a plant;  
transferring the plasmid vector or DNA fragment into a cell of said plant;  
regenerating a transgenic plant from said cell;  
harvesting a portion of said regenerated transgenic plant, said portion containing said  
expressed immunogenic viral antigen and  
purifying said expressed antigen so that most of the plant material is removed.

**Claim 74 (New):** The method of claim 73 wherein said plant is tomato.

**Claim 75 (New):** The method of claim 73 wherein said plant is potato.

**Claim 76 (New):** The method of claim 73 wherein the administering of a vaccine  
comprises a parenteral introduction of said vaccine into said mammal.

**Claim 77 (New):** The method of claim 73 wherein the administering of a vaccine  
comprises a nonparenteral introduction of said vaccine into said mammal.

**Claim 78 (New)** The method of claim 77 wherein said nonparenteral introduction of  
said vaccine into said mammal comprises an oral introduction of said vaccine into said  
mammal.